



NORTH DAKOTA STATE DEPARTMENT OF HEALTH
Air Pollution Control Program
State Capitol
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT
FORM AP 301
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING
Calendar Year 1975

1. Name of Firm or Organization: Montana-Dakota Utilities Co.
2. Plant Location: Mandan, North Dakota
3. Permit to Operate Number: 730001
4. Source Unit Number (from Permit to Operate): 1
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>146,608 Tons</u> (Specify Units) Delivered Cost of fuel <u>\$5.69/Ton</u> (\$/Unit Quantity)	Type <u>NA</u> Quantity per year (Specify Units) Delivered Cost of fuel (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	7.85 4.93 6.54	-
PERCENT SULFUR Max. Min. Avg.	0.98 0.42 0.66	-
BTU PER UNIT Max. Min. Avg.	7,350 6,760 7,015	-

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>NA</u>		Type <u>Lignite</u>	Type <u>NA</u>
	Units <u>Tons</u>	Units <u> </u>		Units <u>Tons</u>	Units <u> </u>
Jan.	17,644		July	14,530	
Feb.	15,915		Aug.	6,114	
March	16,604		Sept.	6,598	
April	16,188		Oct.	7,574	
May	9,471		Nov.	5,982	
June	13,577		Dec.	16,408	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type <u>NA</u> Units <u> </u>
Maximum	23.3	
Average	19.3	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 48

Days Per Week 7 Peak Season Jan. Dec.
(Specify Months of Year)

Total Hours Per Year 7562.3 (1975)

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	429*	1410*
	5.5**	2**
Sulfur Dioxide	420	1588
Nitrogen Oxides	Unknown	-
Other (Specify)	-	-

Basis For Quantities Listed Above:

Electrostatic precipitator went into service on November 19, 1975.
 *These quantities for period of Jan. 1 to Nov. 19, 1975, and based on tests run in October 1971.

**These quantities for period of Nov. 20 to Dec. 31, 1975, and based on tests run in December 1975.

Sulfur Dioxide based on tests run in August 1972.

No tests have been run for Nitrogen Oxides.

10. Name of Person Submitting Report (Print or Type) Earl F. Backhaus

Title Asst. Manager, Power Production Phone (701) 224-3000

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.

(Signed)

Earl F. Backhaus Date July 1, 197